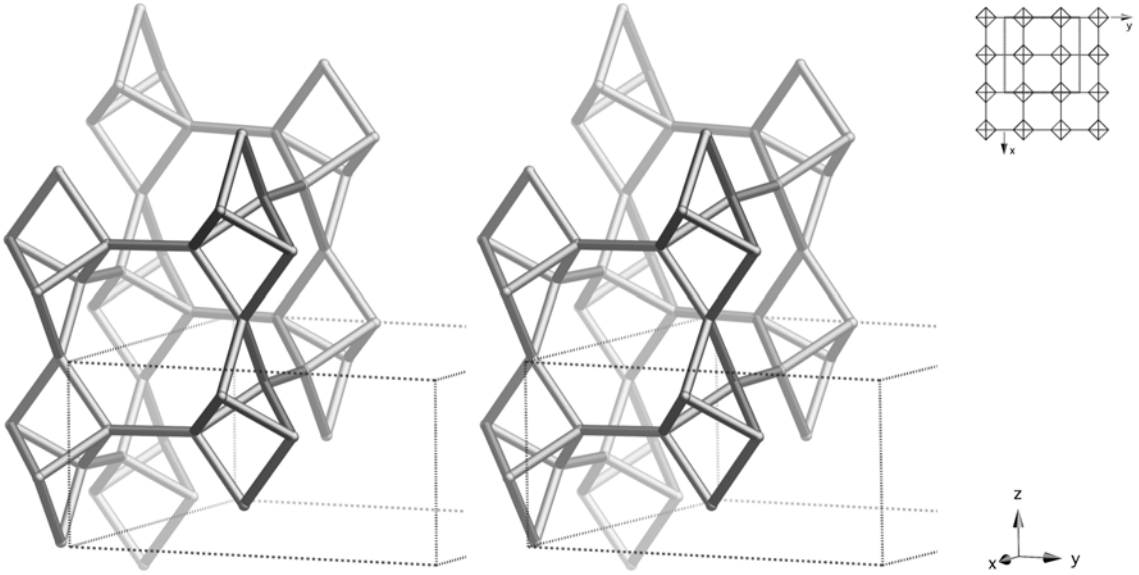
NAT

$I4_1/amd$

Framework Type Data



framework viewed normal to [001]

Idealized cell data: **tetragonal**, $I4_1/amd$ (origin choice 2), a = 13.9, c = 6.4

Coordination sequences and vertex symbols:

T_1 (16,*m*)	4	9	19	35	52	78	106	139	179	213	$4\cdot8_2\cdot4\cdot8_2\cdot4_2\cdot8_4$
T_2 (4, $\bar{4}m2$)	4	8	18	36	56	66	116	140	154	232	$4_2\cdot4_2\cdot8_4\cdot8_4\cdot8_4\cdot8_4$

Secondary building units: 4=1

Composite building units:

nat

Materials with this framework type:

*Natrolite[1,2]	High natrolite[7]	Synthetic gonnardite[15]
[Al-Ge-O]-**NAT**[3]	Mesolite[8,9]	Synthetic mesolite[16]
[Ga-Si-O]-**NAT**[4]	Metanatrolite[10]	Synthetic natrolite[16]
lRb-l[Ga-Ge-O]-**NAT**[5]	Paranatrolite[11]	Synthetic scolecite[16]
Gonnardite[6]	Scolecite[8,12-14]	Tetranatrolite[17]

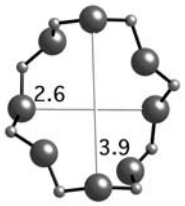
Type Material: Natrolite — NAT

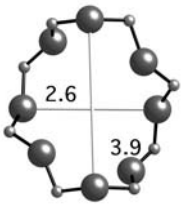
Type Material Data

Crystal chemical data: $|Na_{16}(H_2O)_{16}|[Al_{16}Si_{24}O_{80}]$-**NAT**
orthorhombic, *Fdd*2, a = 18.30Å, b = 18.63Å, c = 6.60Å [(2)]
(Relationship to unit cell of Framework Type:
$a' = b' = a\sqrt{2}$, $c' = c$
or, as vectors, **a**' = **a** + **b**, **b**' = **b** - **a**, **c**' = **c**)

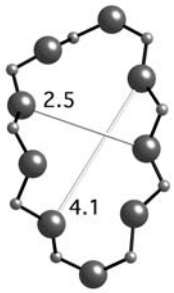
Framework density: 17.8 T/1000Å^3

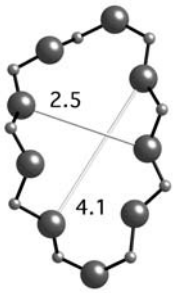
Channels: <100> **8** 2.6 x 3.9** ↔ [001] **9** 2.5 x 4.1*
(variable due to considerable flexibility of framework)





8-ring viewed along <100>





9-ring viewed along [001]

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